

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	26	(primary adj storage\$1) and (second adj storage) and (third adj storage) and read\$3 and write\$3	USPAT	OR	ON	2006/02/23 16:08
L2	367064	HITACHI, LTD.as.	USPAT	OR	ON	2006/02/23 16:09
L3	34382	HITACHI.as.	USPAT	OR	ON	2006/02/23 16:09
L4	3	HITACHI.as. and (primary adj storage\$1) and (second adj storage) and (third adj storage) and read\$3 and write\$3 and controller	USPAT	OR	ON	2006/02/23 16:12
L5	0	"YAMAGAMI, KENJI"..in. and (primary adj storage\$1) and (second adj storage) and (third adj storage) and read\$3 and write\$3 and controller	USPAT	OR	ON	2006/02/23 16:13
L6	17	"YAMAGAMI, KENJI"".in.and" (primary adj storage\$1) and (second adj storage) and (third adj storage) and read\$3 and write\$3 and controller	USPAT	OR	ON	2006/02/23 16:13
L7	17	"YAMAGAMI-KENJI"".in.and" (primary adj storage\$1) and (second adj storage) and (third adj storage) and read\$3 and write\$3 and controller	USPAT	OR	ON	2006/02/23 16:14
L8	17	"YAMAGAMI-KENJI.in.and" (primary adj storage\$1) and (second adj storage) and (third adj storage) and read\$3 and write\$3 and controller	USPAT	OR	ON	2006/02/23 16:14
L9	0	"YAMAGAMI-KENJI.in" and (primary adj storage\$1) and (second adj storage) and (third adj storage) and read\$3 and write\$3 and controller	USPAT	OR	ON	2006/02/23 16:15
L10	0	"YAMAGAMI-KENJI.in"	USPAT	OR	ON	2006/02/23 16:14
L11	0	"YAMAGAMI-KENJI.inv"	USPAT	OR	ON	2006/02/23 16:15
L12	0	"YAMAGAMI or KENJI.inv"	USPAT	OR	ON	2006/02/23 16:15
L13	0	"YAMAGAMI or KENJI"	USPAT	OR	ON	2006/02/23 16:15
L14	20829	YAMAGAMI or KENJI	USPAT	OR	ON	2006/02/23 16:15
L15	0	(YAMAGAMI or KENJI) and (primary adj storage\$1) and (second adj storage) and (third adj storage) and read\$3 and write\$3 and controller	USPAT	OR	ON	2006/02/23 16:16

L16	0	(YAMAGAMI or KENJI) and (primary adj storage\$1) and (second adj storage) and (third adj storage) and controller	USPAT	OR	ON	2006/02/23 16:16
L17	2	(YAMAGAMI or KENJI) and (primary adj storage\$1) and controller	USPAT	OR	ON	2006/02/23 16:20
L18	18	(YAMAGAMI or KENJI) and (primary adj storage\$1) and controller	US-PGPUB; USPAT	OR	ON	2006/02/23 16:20
L19	98	(YAMAGAMI or KENJI) and storage\$1 near controller	US-PGPUB; USPAT	OR	ON	2006/02/23 16:20
L20	3	(YAMAGAMI or KENJI) and storage\$1 near3 controller same journal and mirror	US-PGPUB; USPAT	OR	ON	2006/02/23 16:21
S52 9	118848	storage\$1 same computers	USPAT	OR	ON	2005/09/07 16:12
S53 0	6664	storage\$1 same (computer\$1 adj network)	USPAT	OR	ON	2005/09/07 16:12
S53 1	4	storage\$1 same (computer\$1 adj network) same (load adj balance\$3)	USPAT	OR	ON	2005/09/07 16:14
S53 2	0	(primary adj storage\$1) same (computer\$1 adj network) same (load adj balance\$3)	USPAT	OR	ON	2005/09/07 16:14
S53 3	0	(primary adj storage\$1) same network same (load adj balance\$3)	USPAT	OR	ON	2005/09/07 16:15
S53 4	0	(primary adj storage\$1) same Internet same (load adj balance\$3)	USPAT	OR	ON	2005/09/07 16:17
S53 5	0	(primary adj storage\$1) and Internet same (load adj balance\$3)	USPAT	OR	ON	2005/09/07 16:17
S53 6	20	(primary adj storage\$1) and Internet and(load adj balance\$3)	USPAT	OR	ON	2005/09/07 16:18
S53 7	0	(primary adj storage\$1) same(load adj balance\$3)	USPAT	OR	ON	2005/09/07 16:18
S53 8	25	(primary adj storage\$1) and (load adj balance\$3)	USPAT	OR	ON	2005/09/07 16:25
S53 9	3161	(primary adj storage\$1) same (second adj storage) (load adj balance\$3 or failover)	USPAT	OR	ON	2005/09/07 16:34
S54 0	2	(primary adj storage\$1) same (second adj storage) and (load adj balance\$3 or failover)	USPAT	OR	ON	2005/09/07 16:26
S54 1	522	storages same controllers and (load adj balance\$3 or failover)	USPAT	OR	ON	2005/09/07 16:27

S54 2	117	storages same controllers same (load adj balance\$3 or failover)	USPAT	OR	ON	2005/09/07 16:27
S54 3	12	storages same controllers same (load adj balance\$3 or failover) same read\$4 and write\$3	USPAT	OR	ON	2005/09/07 16:28
S54 4	7	storages same (storage adj controllers) same (load adj balance\$3 or failover) same read\$4 and write\$3	USPAT	OR	ON	2005/09/07 16:31
S54 5	0	storages same (data adj volume) same (load adj balance\$3 or failover) same read\$4 and write\$3	USPAT	OR	ON	2005/09/07 16:32
S54 6	0	storages and (data adj volume) same (load adj balance\$3 or failover) same read\$4 and write\$3	USPAT	OR	ON	2005/09/07 16:32
S54 7	3	storages and (data adj volume) and (load adj balance\$3 or failover) same read\$4 and write\$3	USPAT	OR	ON	2005/09/07 16:32
S54 8	0	(primary adj storage\$1) same (second adj storage) same (load adj balance\$3 or failover)	USPAT	OR	ON	2005/09/07 16:34
S54 9	2	(primary adj storage\$1) same (second adj storage) and (load adj balance\$3 or failover)	USPAT	OR	ON	2005/09/07 16:36
S55 0	37	(primary adj storage\$1) and (second adj storage) and (third adj storage)	USPAT	OR	ON	2005/09/07 16:36
S55 1	0	(primary adj storage\$1) and (second adj storage) and (third adj storage) and failover	USPAT	OR	ON	2005/09/07 16:36
S55 2	1	(primary adj storage\$1) and (second adj storage) and (third adj storage) and load adj balance	USPAT	OR	ON	2005/09/07 16:38
S55 3	24	(primary adj storage\$1) and (second adj storage) and (third adj storage) and read\$3 and write\$3	USPAT	OR	ON	2005/09/07 16:38
S55 4	16	(primary adj storage\$1) and (second adj storage) and (third adj storage) and read\$3 and write\$3 and controller	USPAT	OR	ON	2005/09/07 16:38
S55 5	12	(primary adj storage\$1) and (second adj storage) and (third adj storage) and read\$3 and write\$3 and controller and volume	USPAT	OR	ON	2005/09/07 16:38



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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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[Selected Areas in Communications, IEEE Journal on](#)
Volume 23, Issue 10, Oct. 2005 Page(s):2032 - 2040
Digital Object Identifier 10.1109/JSAC.2005.854128
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Rejaie, R.; Handley, M.; Estrin, D.;
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Luglio, M.; Sanadidi, M.Y.; Gerla, M.; Stepanek, J.;
[Selected Areas in Communications, IEEE Journal on](#)
Volume 22, Issue 2, Feb. 2004 Page(s):362 - 370
Digital Object Identifier 10.1109/JSAC.2003.819987
[AbstractPlus](#) | [References](#) | [Full Text: PDF](#)(312 KB) IEEE JNL
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[Selected Areas in Communications, IEEE Journal on](#)
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Digital Object Identifier 10.1109/JSAC.2003.810499



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H.; Namiki, S.; Aoyama, T.;
[Lightwave Technology, Journal of](#)
Volume 23, Issue 10, Oct. 2005 Page(s):3404 - 3418
Digital Object Identifier 10.1109/JLT.2005.856303
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- ☐ 7. **WebGraph: a framework for managing and improving performance of dyr
content**
Mohapatra, P.; Huamin Chen;
[Selected Areas in Communications, IEEE Journal on](#)
Volume 20, Issue 7, Sep 2002 Page(s):1414 - 1425
Digital Object Identifier 10.1109/JSAC.2002.802072
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(307 KB\)](#) IEEE JNL
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- ☐ 8. **Rapid display of Web content: a simple method for prefetching Web files**
Leis, J.;
[Computing & Control Engineering Journal](#)
Volume 13, Issue 3, June 2002 Page(s):149 - 152
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1 [Real-time shading](#)



Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

 August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

 Full text available: [pdf\(7.39 MB\)](#)

 Additional Information: [full citation](#), [abstract](#)

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

2 [High dynamic range imaging](#)



Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik

 August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

 Full text available: [pdf\(20.22 MB\)](#)

 Additional Information: [full citation](#), [abstract](#)

Current display devices can display only a limited range of contrast and colors, which is one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent advances in high-dynamic-range imaging, from capture to display, that remove this restriction, thereby enabling images to represent the color gamut and dynamic range of the original scene rather than the limited subspace imposed by current monitor ...

3 [GPGPU: general purpose computation on graphics hardware](#)



David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

 August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

 Full text available: [pdf\(63.03 MB\)](#)

 Additional Information: [full citation](#), [abstract](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

4 The elements of nature: interactive and realistic techniques



Oliver Deussen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(17.65 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

5 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

6 Facial modeling and animation



Jörg Haber, Demetri Terzopoulos

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(18.15 MB\)](#) Additional Information: [full citation](#), [abstract](#)

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

7 Pen computing: a technology overview and a vision



André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press

Full text available: [pdf\(5.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in

public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

8 Information storage and retrieval: a survey and functional description



Jack Minker

September 1977 **ACM SIGIR Forum**, Volume 12 Issue 2

Publisher: ACM Press

Full text available: [pdf\(5.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Information Storage and Retrieval (IS&R) encompasses a broad scope of topics ranging from basic techniques for accessing data to sophisticated approaches for the analysis of natural language text and the deduction of information. Within the field, three general areas of investigation can be distinguished not only by their subject matter but also by the types of individuals presently interested in them: (1) Document retrieval, (2) Generalized data management, and (3) Question-answering. A functional ...

Keywords: automatic indexing, data management, data structures, deductive search, information retrieval, natural language, problem solving, question-answering, relational data systems, theorem proving

9 Special issue: AI in engineering



D. Sriram, R. Joobhani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available: [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

10 Special issue on knowledge representation



Ronald J. Brachman, Brian C. Smith

February 1980 **ACM SIGART Bulletin**, Issue 70

Publisher: ACM Press

Full text available: [pdf\(13.13 MB\)](#) Additional Information: [full citation](#), [abstract](#)

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were two useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Second ...

11 Run-time adaptation in river



Remzi H. Arpaci-Dusseau

February 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 1

Publisher: ACM Press

Full text available: [pdf\(849.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present the design, implementation, and evaluation of run-time adaptation within the River dataflow programming environment. The goal of the River system is to provide

adaptive mechanisms that allow database query-processing applications to cope with performance variations that are common in cluster platforms. We describe the system and its basic mechanisms, and carefully evaluate those mechanisms and their effectiveness. In our analysis, we answer four previously unanswered and important que ...

Keywords: Performance availability, clusters, parallel I/O, performance faults, robust performance, run-time adaptation

12 Three-dimensional medical imaging: algorithms and computer systems



M. R. Stytz, G. Frieder, O. Frieder

December 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 4

Publisher: ACM Press

Full text available: [pdf\(7.38 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: Computer graphics, medical imaging, surface rendering, three-dimensional imaging, volume rendering

13 Shape-based retrieval and analysis of 3D models



Thomas Funkhouser, Michael Kazhdan

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(12.56 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD, molecular biology, and computer graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help people find the interesting ones and discover relationships between them. Unfortunately, traditional text-based search techniques are not always effective for 3D models, especially when queries are geometric in nature (e.g., find me objects that fit into thi ...

14 Projectors: advanced graphics and vision techniques



Ramesh Raskar

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(6.53 MB\)](#)

Additional Information: [full citation](#)

15 The state of the art in locally distributed Web-server systems



Valeria Cardellini, Emiliano Casalichio, Michele Colajanni, Philip S. Yu

June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.41 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has

produced a variety of novel content delivery architectures. This article w ...

Keywords: Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

16 The Quadtree and Related Hierarchical Data Structures



Hanan Samet

June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2

Publisher: ACM Press

Full text available: [pdf\(4.87 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



17 Crowd and group animation



Daniel Thalmann, Christophe Hery, Seth Lippman, Hiromi Ono, Stephen Regelous, Douglas Sutton

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(20.19 MB\)](#) Additional Information: [full citation](#), [abstract](#)

A continuous challenge for special effects in movies is the production of realistic virtual crowds, in terms of rendering and behavior. This course will present state-of-the-art techniques and methods. The course will explain in details the different approaches to create virtual crowds: particle systems with flocking techniques using attraction and repulsion forces, copy and pasting techniques, agent-based methods. The architecture of software tools will be presented including the MASSIVE softwa ...



18 Serverless network file systems



T. E. Anderson, M. D. Dahlin, J. M. Neefe, D. A. Patterson, D. S. Roselli, R. Y. Wang

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95**, Volume 29 Issue 5

Publisher: ACM Press

Full text available: [pdf\(2.48 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



19 Evolution of Data-Base Management Systems



James P. Fry, Edgar H. Sibley

March 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 1

Publisher: ACM Press

Full text available: [pdf\(2.63 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



20 Illustrative risks to the public in the use of computer systems and related technology



Peter G. Neumann

January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1

Publisher: ACM Press

Full text available: [pdf\(2.54 MB\)](#) Additional Information: [full citation](#)



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